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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/605,503 06/28/2000		Michael T. Moore	0325.00364	5734		
21363	7590	02/26/2003			•	
		IAIORANA, P.C	EXAMINER			
24025 GREA SUITE 200			MALZAHN, DAVID H			
ST. CLAIR SHORES, MI 48080				ART UNIT	PAPER NUMBER	
				2124	•	
				DATE MAILED: 02/26/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner	•		Application No.	Applicant(s)					
David H. Malzahn   2124			09/605,503	MOORE ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of time may be available used the procrisions of 3 CPR 1.136(a). In or event, however, may a reply be timely filled to the proof of time may be available under the procrisions of 3 CPR 1.136(a). In or event, however, may a reply to timely filled to the proof of the period for may be specified above is less than thirty (20) days, a supply within the solid reply is specified above. It is maintained to reply specified above is less than thirty (20) days, a supply within the solid reply is specified above. It is maintained to reply advise the solid reply is specified to the contemporation. The solid reply is the solid reply is specified to the contemporation. The solid reply is the solid reply is specified to the contemporation. The solid reply is specified to the contemporation of the contemporation. The solid reply is specified to the contemporation of the contemporation. The solid reply is specified to the contemporation of the contemporation. The solid reply is specified to the contemporation of the contemporation. The solid reply is specified to the contemporation of the contempora		Office Action Summary	Examiner	Art Unit					
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of lines may be available under the provisions of 37 CFR 1.736(a). In or event, however, may a reply be limity filed  Extensions of lines may be available under the provisions of 37 CFR 1.736(a). In or event, however, may a reply be limity filed  Extensions of the provision of the provisions of 37 CFR 1.736(a). In or event, however, may a reply be limity filed  Extensions of the provision of the specified above, the maintening of the provision of Claims  1) Responsive to communication(s) filed on  2a) This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s)			<u> </u>						
THE MAILING DATE OF THIS COMMUNICATION.  Editances of time may be available under the proteins of 3 or PR. 1 136(a). In no event, however, may a reply be limely filed of the EX (6) MONTHS from the mailing date of this communication.  It No pends to may be secured above, the maintenes of 3 or PR. 1 136(a). In no event, however, may a reply be limely filed of the EX (6) MONTHS from the mailing date of this communication.  It No pends to may be secured above, the maintenes intellectly period within the statistics year and sequences.  It No pends to make year of the sequences of the provision of th									
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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-11 and 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by White (4,344,151).

White's Fig. 1 illustrates a quad port memory including LUTs to provide logical functions which may be partial product signals which are subsequently added to effect multiplication.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over White and Chehrazi et al (Chehrazi).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to add one or more registers to increase the throughput of White's multiplier

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because pipelining is a well known technique to increase throughout as illustrated by Cheharazi, note the abstract.

### Claim Rejections - 35 USC § 112

5. Claims 8-11 and 14-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 is dependent on itself. The "one or more second signals" of claim 10 fail to be clearly related to the "one or more partial product signals" of claim 9. In claim 11 the phrase "routable interconnect" clearly lacks meaning. In claim 14 the "means for providing one or more logical functions" fail to be clearly related to the LUTs because the LUTs provide the logical functions. Similarly note claim 15. Claims 16-20 are method claims dependent on apparatus claim 14. In claim 20 the phrase "step (D)" lacks clear antecedent basis.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

David H. Malzahn Primary Examiner Art Unit 2124